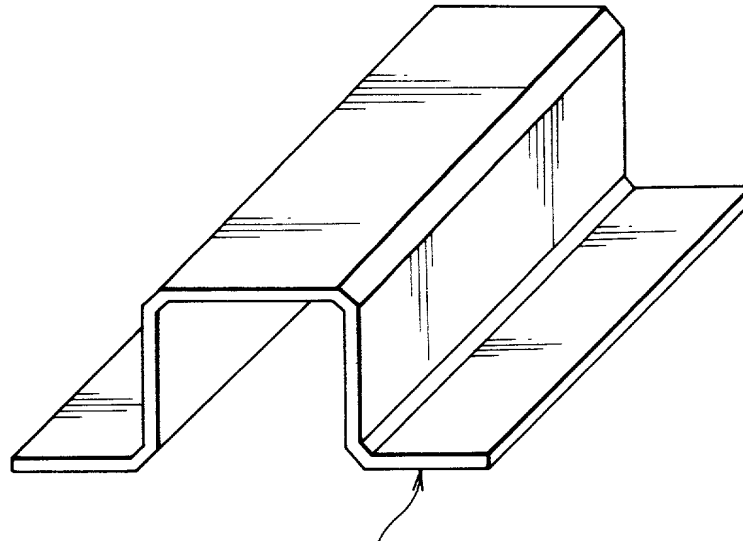


FIG. 1



"HAT CHANNEL" SPECIMEN

DOCKET " 50581US2 "

FIG. 2A

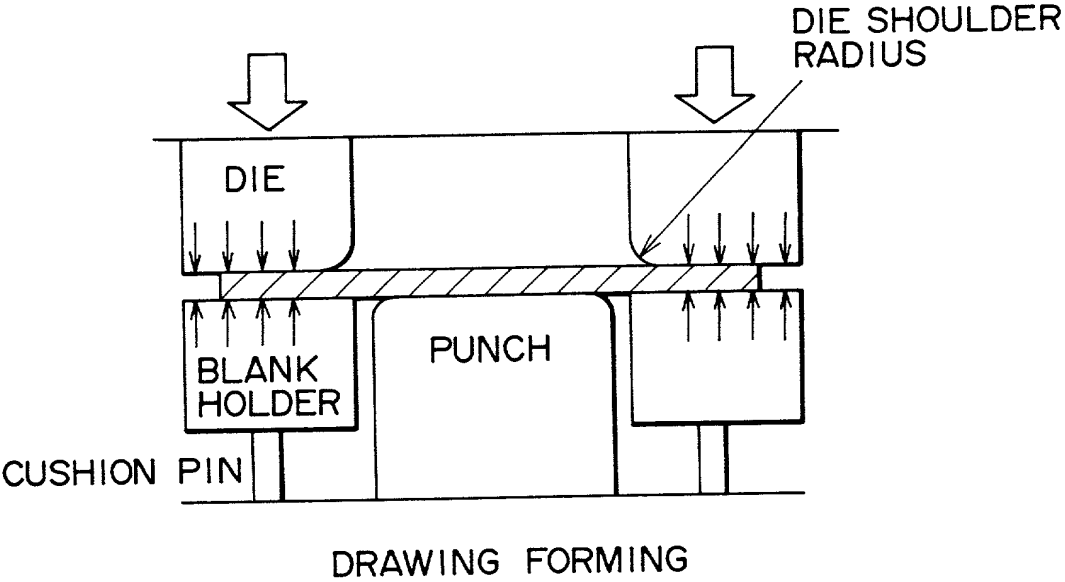


FIG. 2B

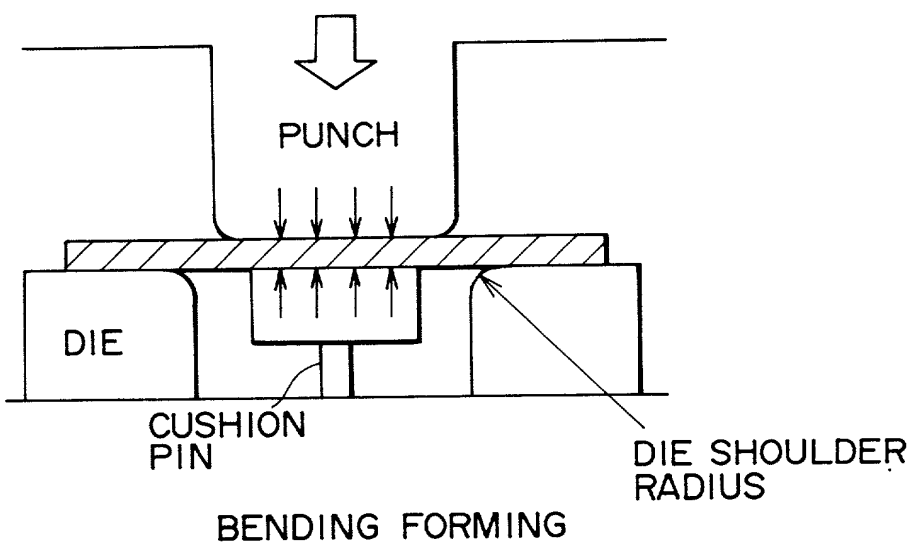
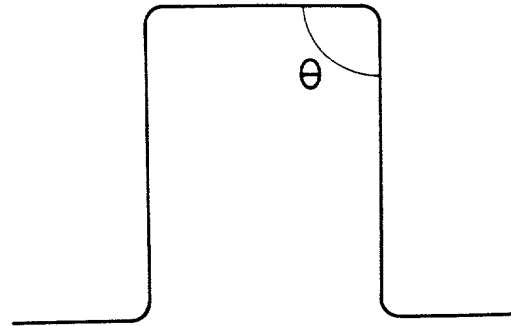
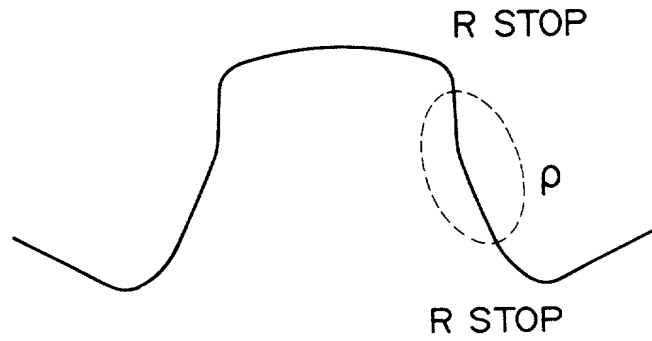


FIG. 3A



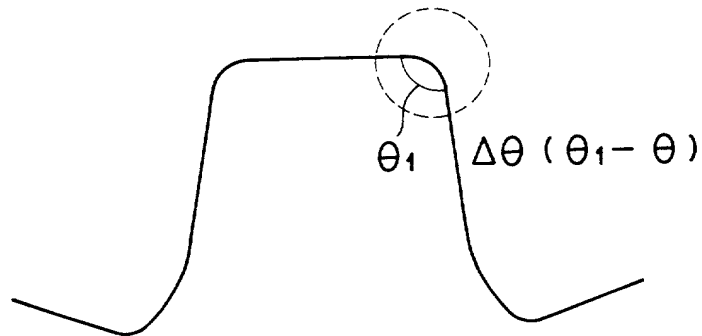
DESIGN (TARGET) SHAPE

FIG. 3B



WALL WARP

FIG. 3C



ANGULAR CHANGE

002121 2 50666 60

FIG. 4A FIG. 4B FIG. 4C FIG. 4D FIG. 4E

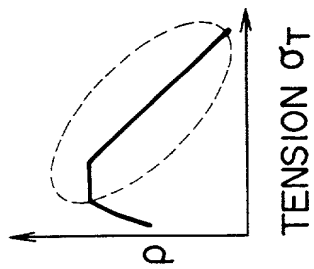
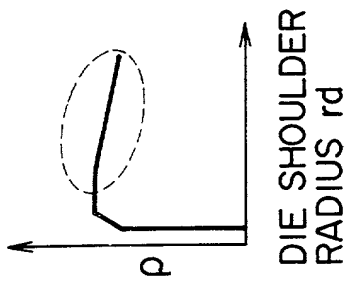
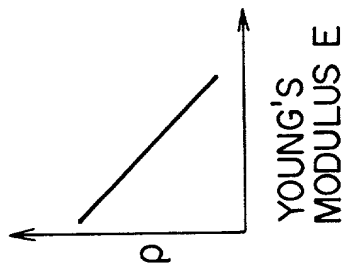
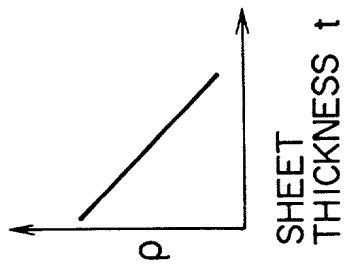
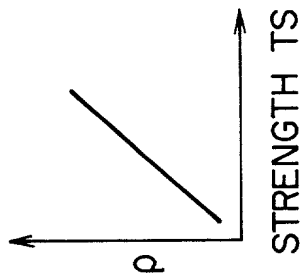


FIG. 5

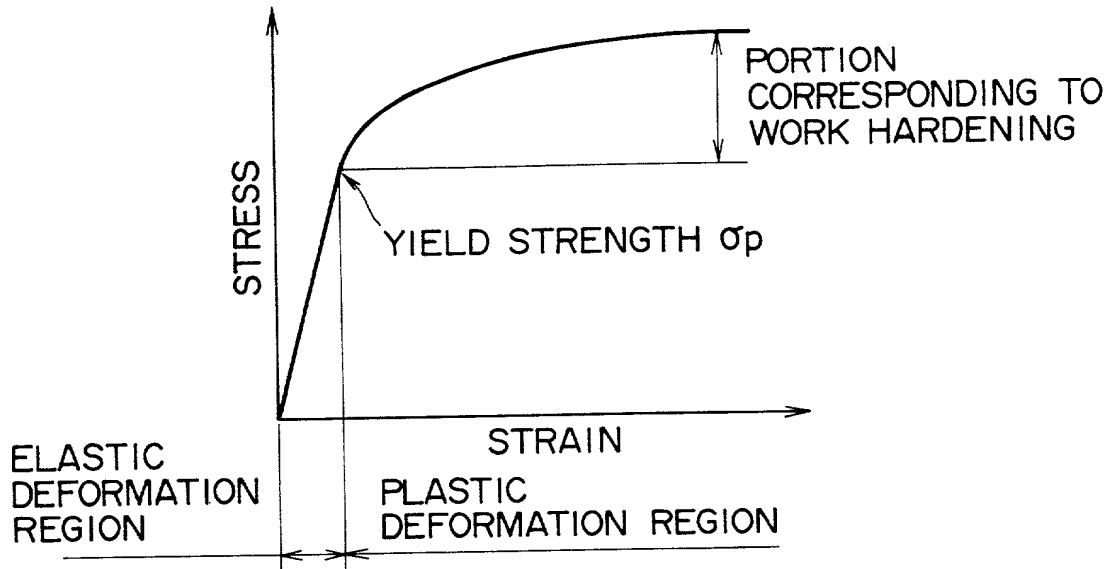


FIG. 6

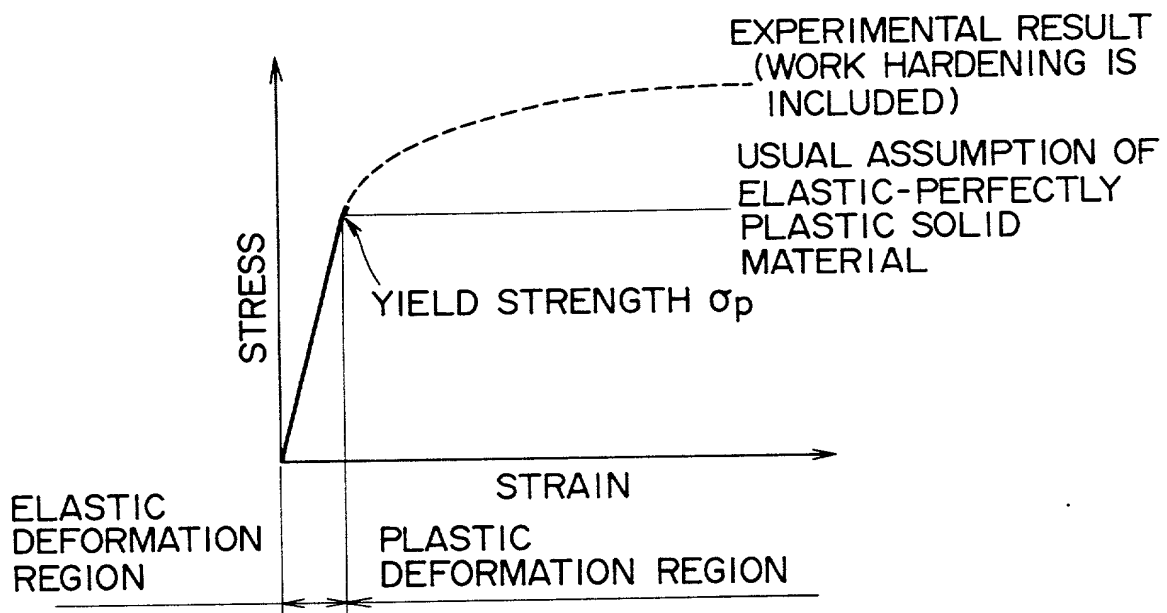


FIG. 7A FIG. 7B FIG. 7C

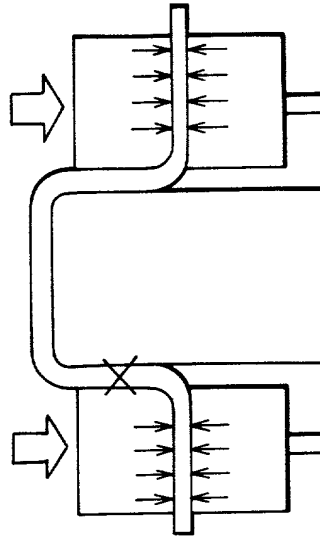
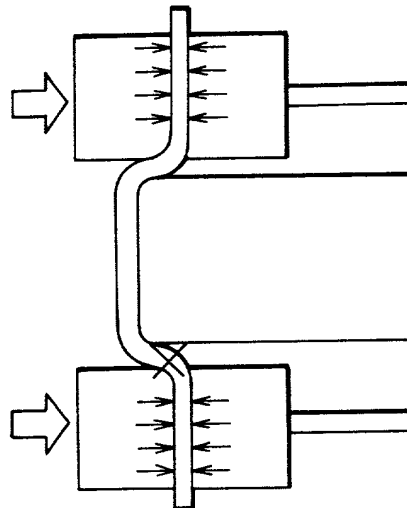
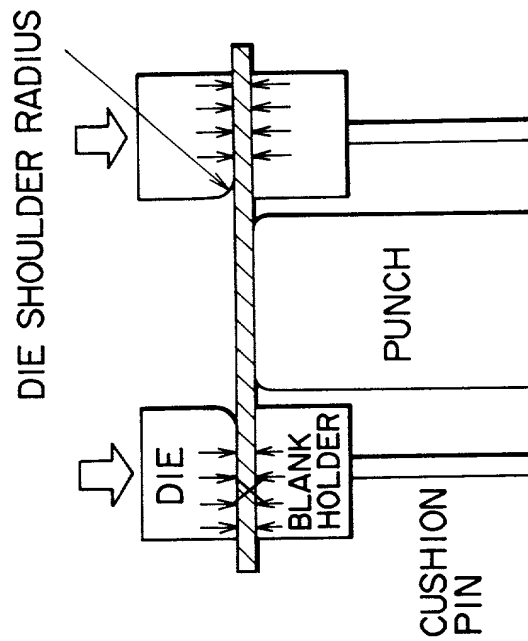


FIG. 8A      FIG. 8B      FIG. 8C

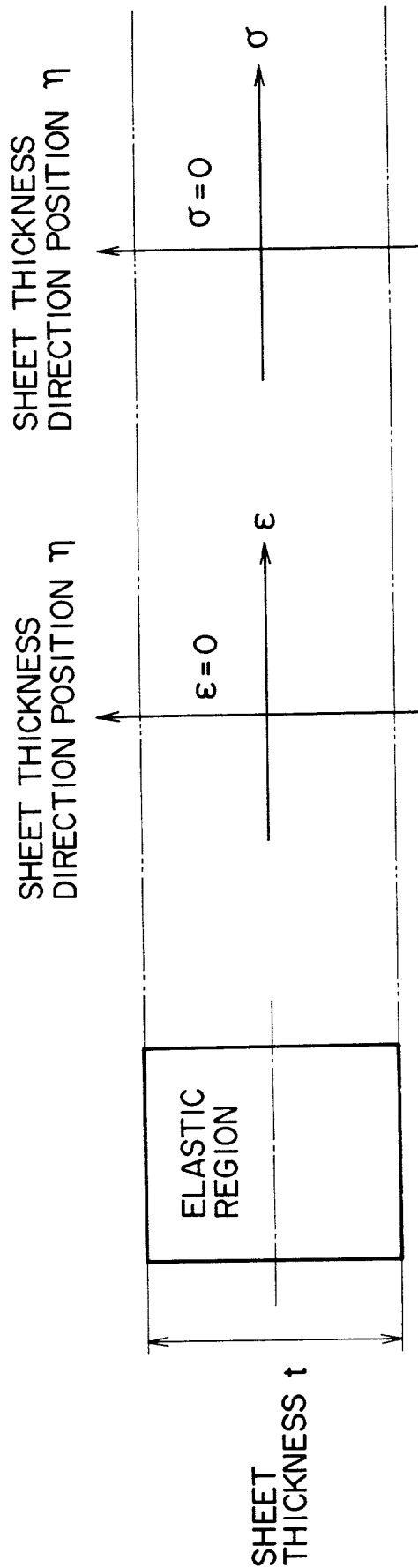


FIG. 9A FIG. 9B FIG. 9C

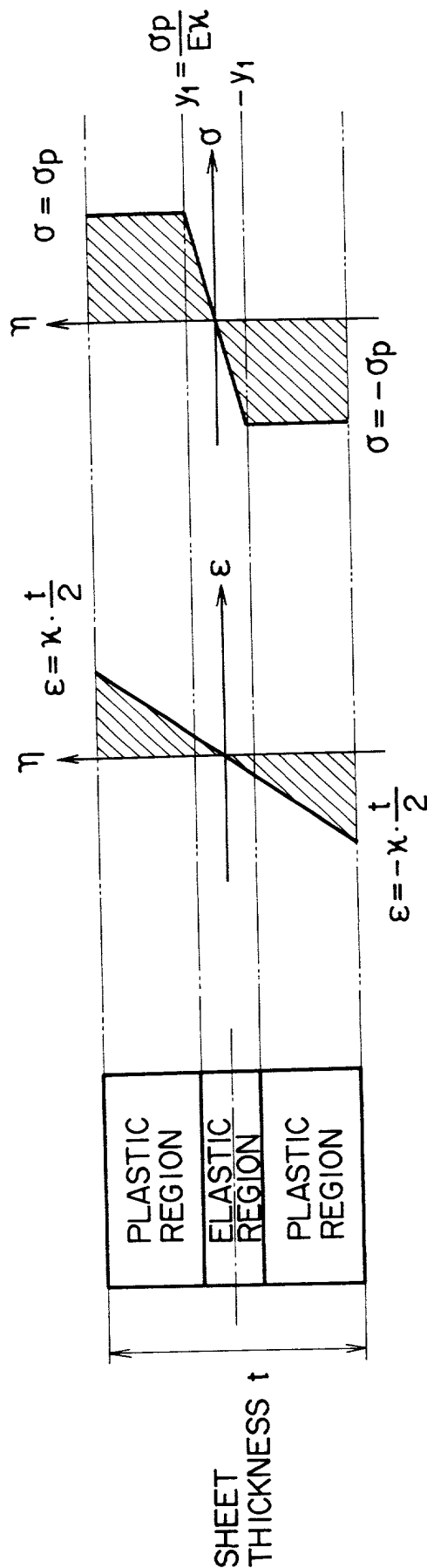




FIG. 10A FIG. 10B FIG. 10C

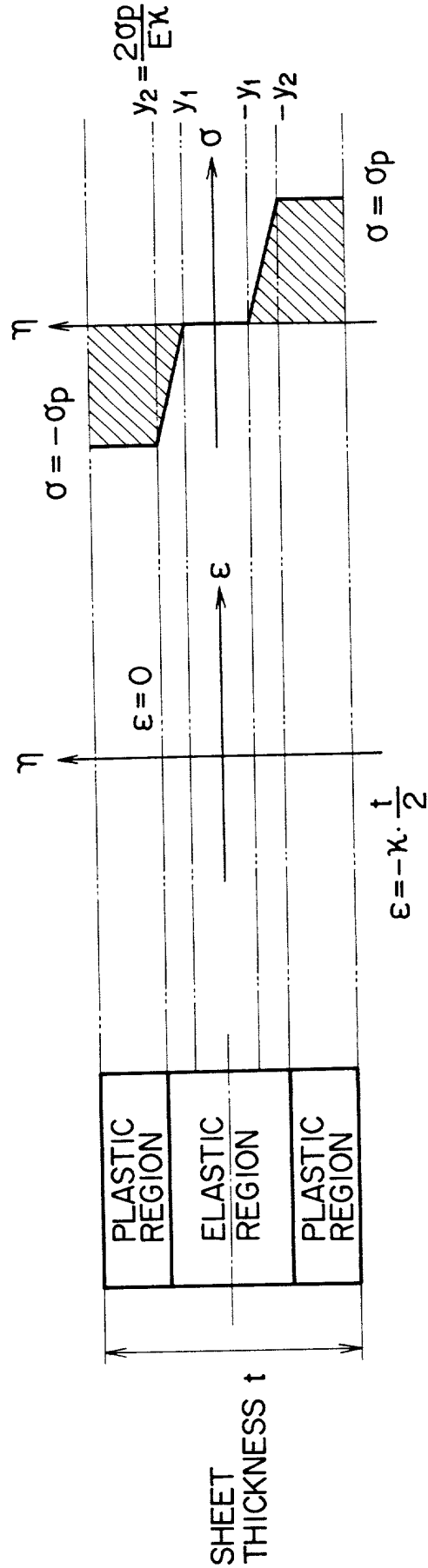
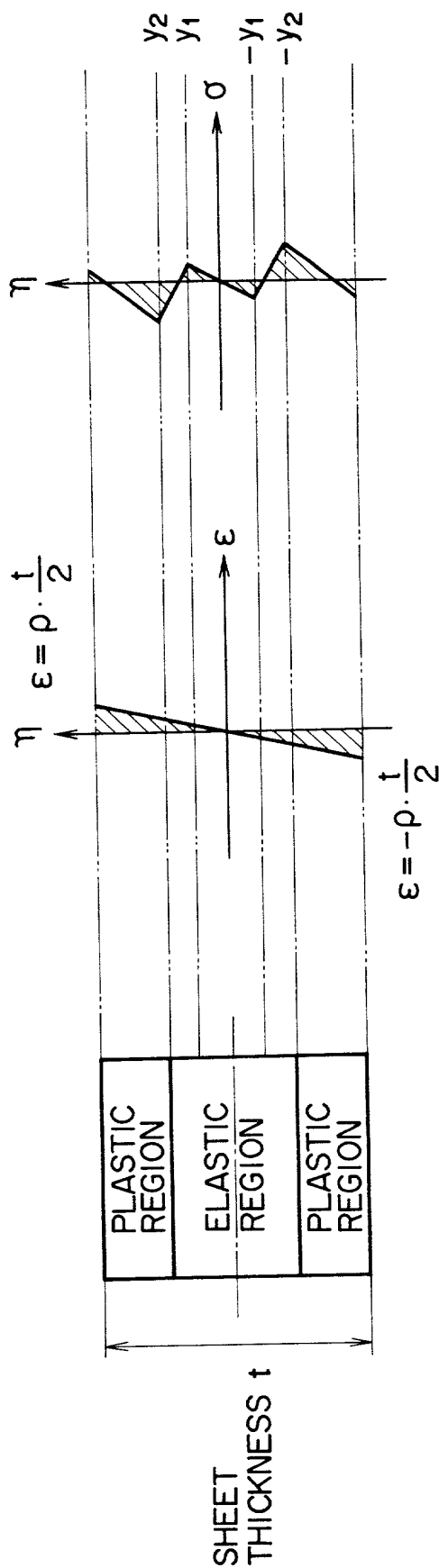


FIG. 11A FIG. 11B FIG. 11C



F I G. 12

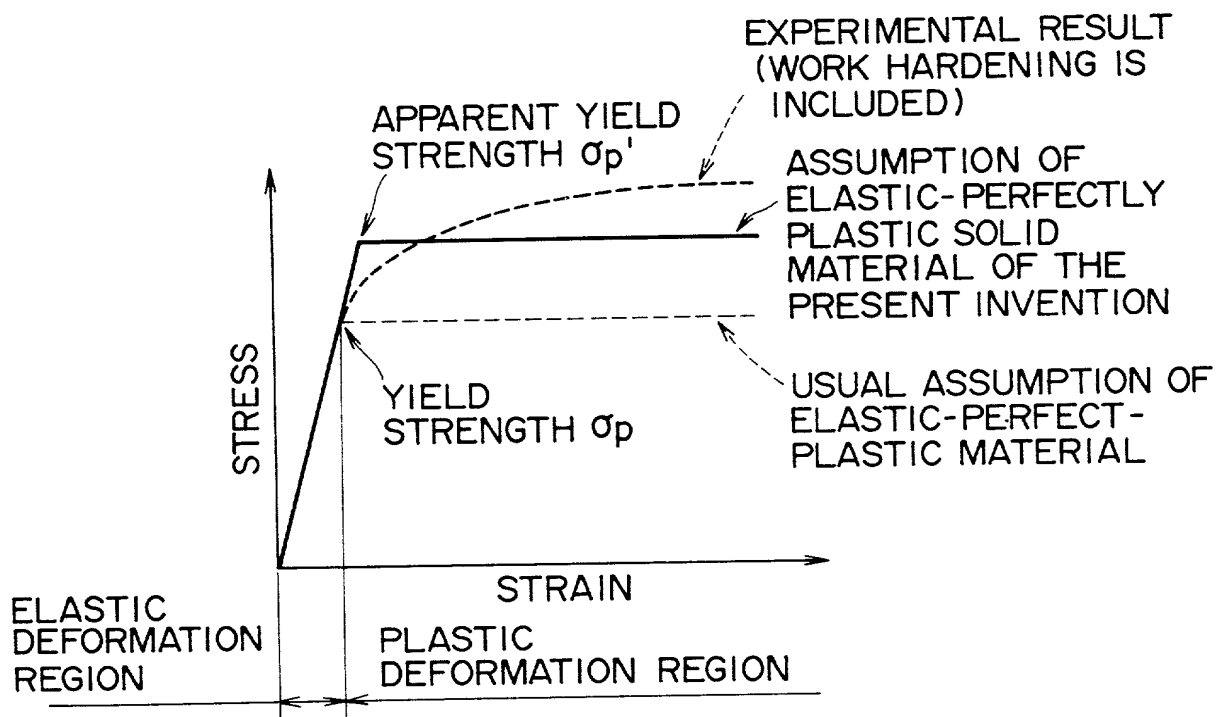


FIG. 13D

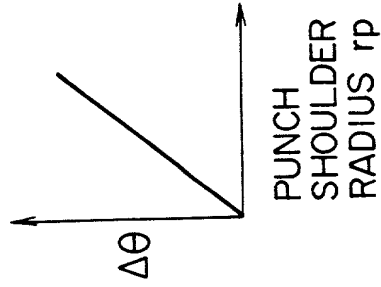


FIG. 13C

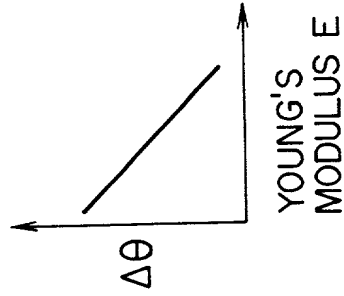


FIG. 13B

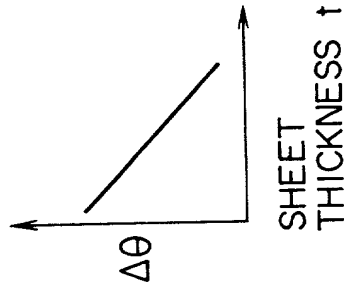


FIG. 13A

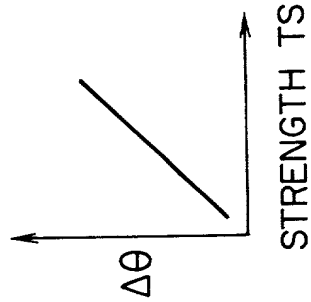


FIG. 14

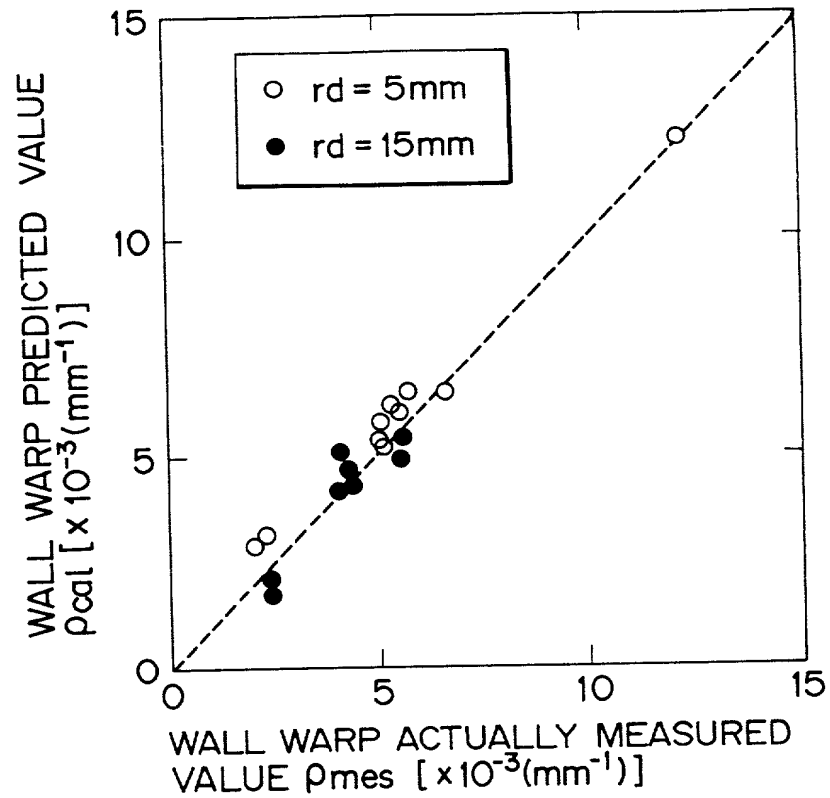


FIG. 15

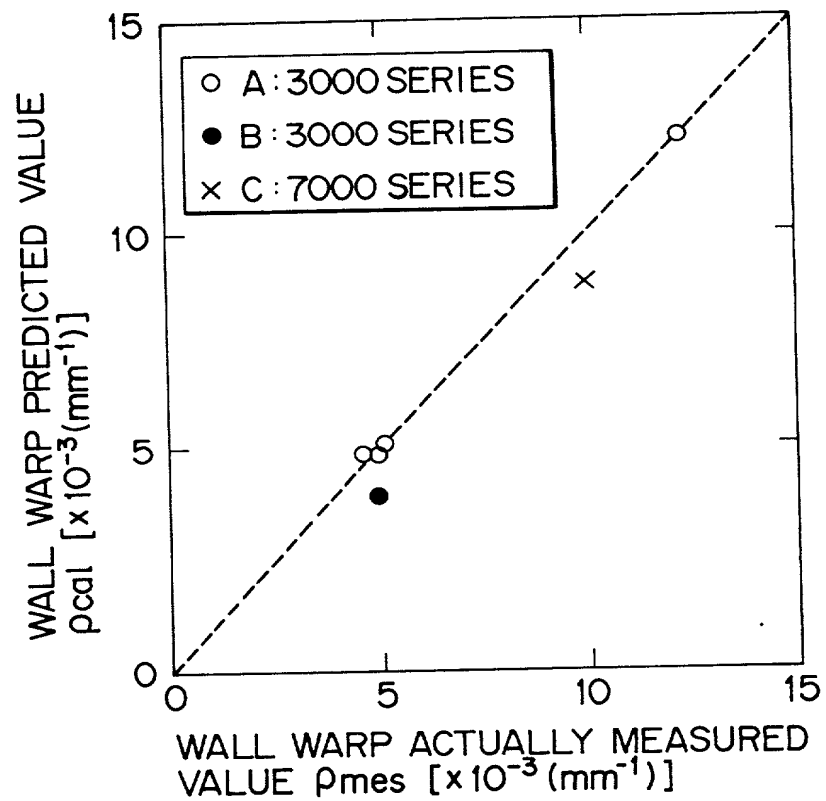


FIG. 16

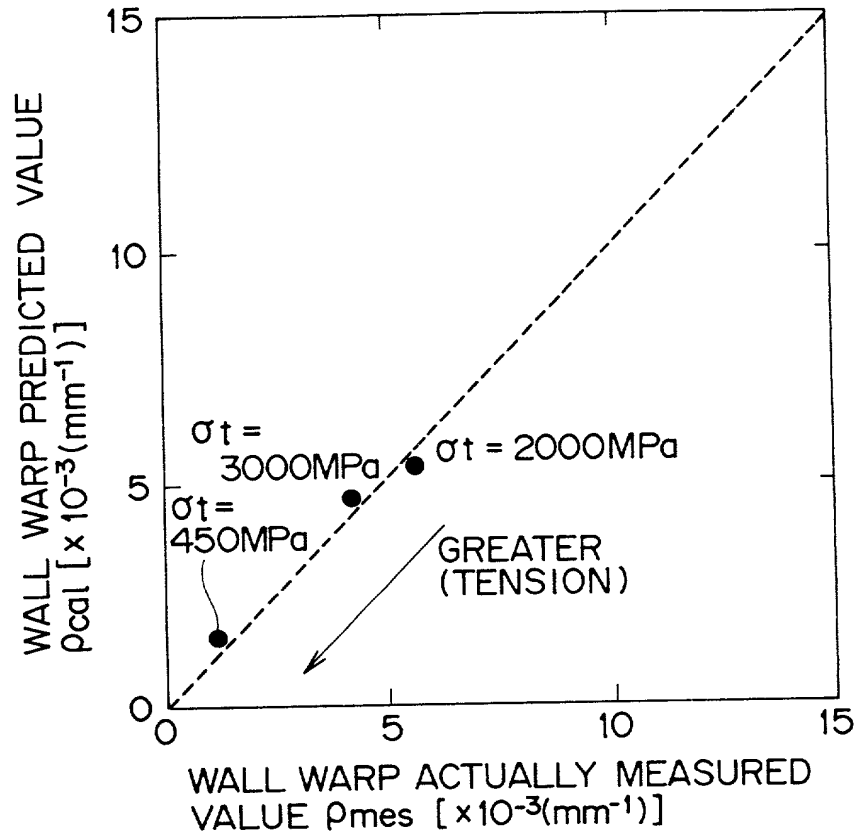


FIG. 17

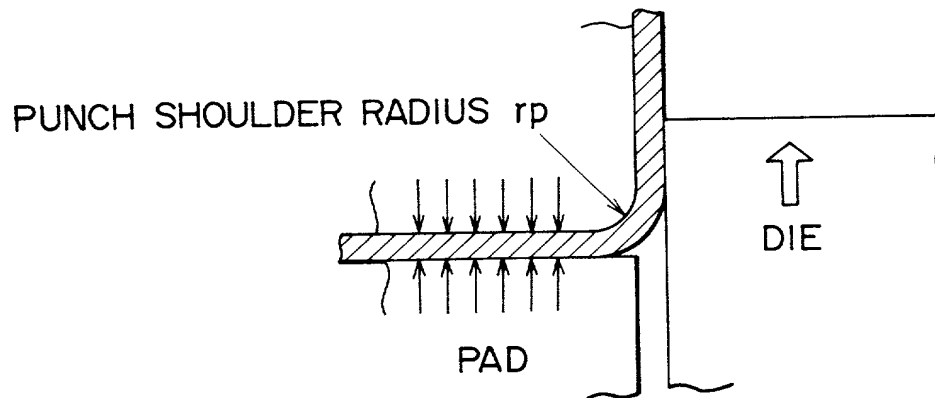


FIG. 18

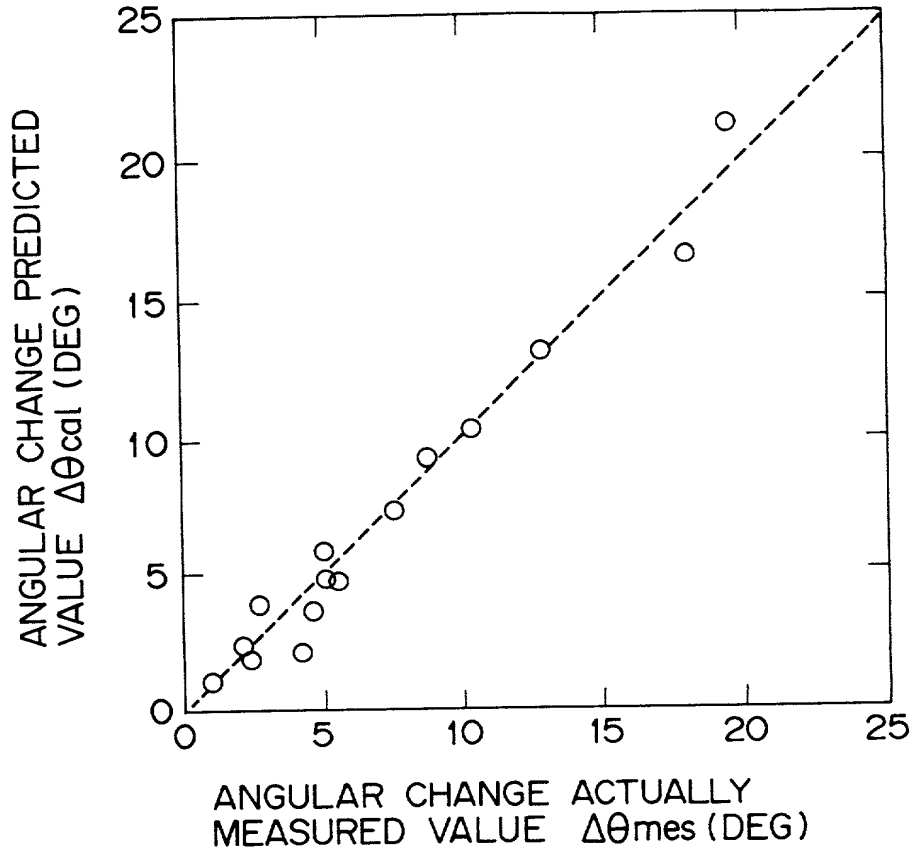
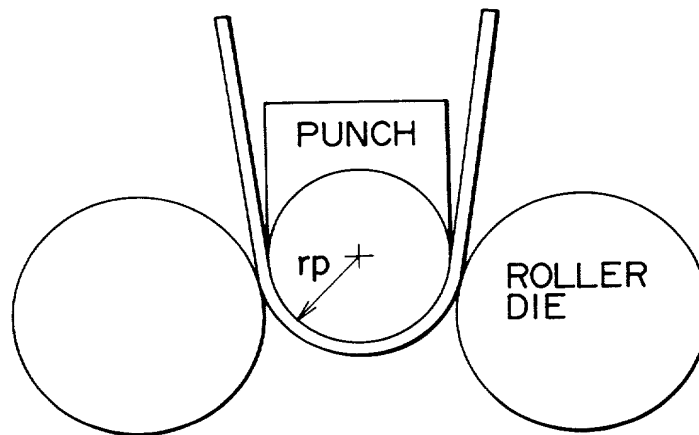


FIG. 19



# F I G. 20

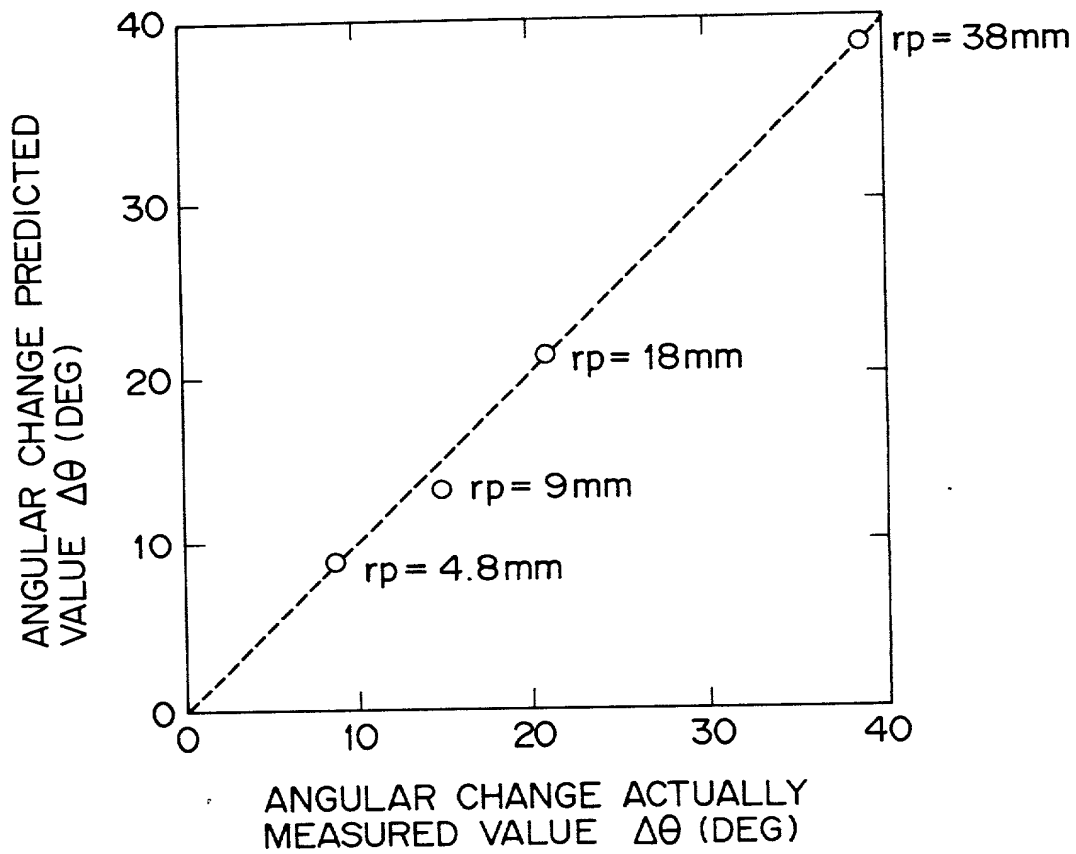




FIG. 21A

INFLUENCE OF STRENGTH

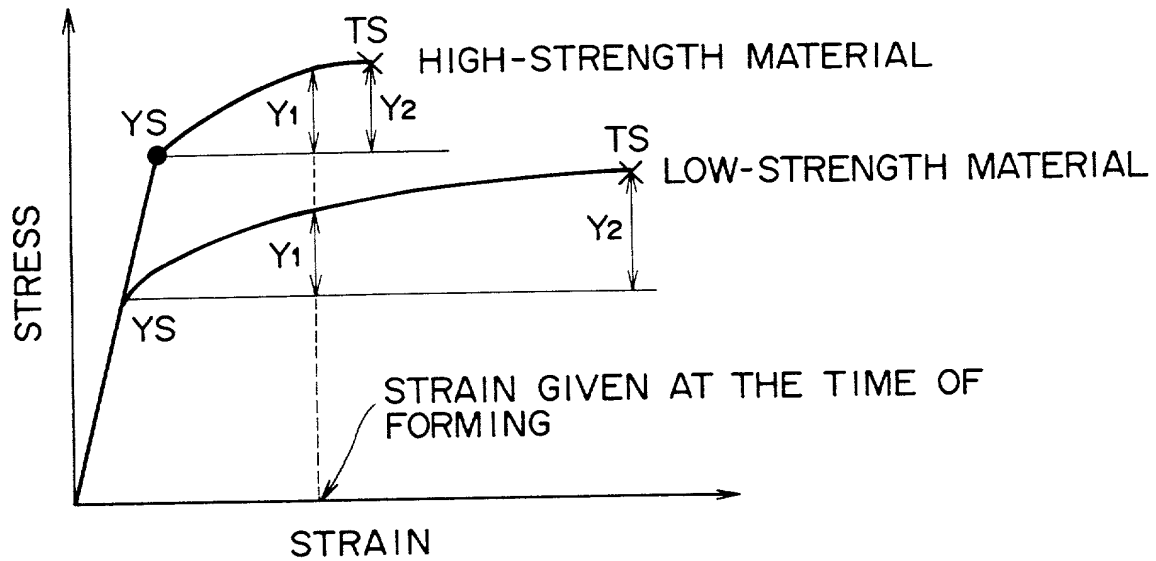


FIG. 21B

INFLUENCE OF SHEET THICKNESS ( $t$ )

